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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Entomology and Plant Quarantine
Washington, D. C.

B. E. P. Q. 505.

January 4, 1940.

SEC. 301.58-3a--ADMINISTRATIVE INSTRUCTIONS
THE SHIPMENT OF ORANGES AND GRAPEFRUIT FROM PUERTO RICO TO THE
MAINLAND SUBJECT TO TREATMENT UNDER SUPERVISION IS AUTHORIZED

Investigations in treating fruit for the fruitfly Anastrepha sus-
pense Loew have demonstrated that the holding of the fruits at certain pre-
scribed temperatures for certain periods will kill all stages of this insect.

The interstate shipment, subject to one of the following prescribed
treatments, is therefore authorized for Puerto Rican oranges and grapefruit
otherwise ineligible for the usual certification given under the provisions
of Quarantine No. 58 (Sec. 301.58).

1. Heat treatment

Heating the fruit with air at 100 percent relative humidity for a
period of not less than 16 hours during which time the temperature at the
approximate centers of the fruits shall be raised to 110° F. or above and
maintained at 110° F. or above for the last 8 hours of such treatment.

2. Cold treatment

Cooling until the approximate centers of the fruits reach a temperature
of 34° F. or below and holding the fruits so that the inside temperature
does not exceed 34° F. for a period of 15 days.

Either the heat treatment or the cold treatment may be employed at
the shipper's option and at his expense provided that adequate facilities
are available and arrangements for supervision can be made. Information on
the application of the prescribed treatments may be had on application to
the Bureau of Entomology and Plant Quarantine.

While injury to the fruits is not expected to result from either treat-
ment, no liability shall be attached to the United States Department of Agri-
culture on account of any claim of damage to such fruits attributed to either
treatment.

On and after January 15, 1940, certification for shipment to mainland
destinations under Quarantine No. 58 (Sec. 301.58) will be given to Puerto
Rican oranges and grapefruit which have been subjected to either of the
above-prescribed treatments carried out under supervision of a plant quar-
antine inspector of the United States Department of Agriculture at a treat-
ing plant approved for the purpose. (Sec. 301.58-3) [B. E. P. Q. 505,
Jan. 4, 1940.]

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